

HNA-
$$(CH_2)_n$$
-B

O

OR

OX

FIG.2A

activator-
$$C(0)$$
- $(CH_2)_n$ - B

$$FIG.2B$$

$$H-B-(CH_2)_n-B$$
OO
OR
 OX

FIG.2C

$$O-O$$
 OR
 OX
 $B-(CH_2)_n-C(O)-activator$

FIG.2E

FIG.2F

activator-
$$C(0)$$
- $(CH_2)_n$ - B

$$FIG.2H$$
OR
$$OR$$

$$OX$$

$$FIG.2H$$

$$H-B-(CH_2)_n-B$$

FIG.21

$$^{0-0}$$
 OX 0 OX 0 Phenyl-B-(CH₂)_n-C(0)-activator

dendrimer-
$$-C(0)$$
-NA- (CH_2) _n-B 0 -O 0 R 0 X Z

FIG.3A

dendrimer -- NH-C(0)-(CH₂)_n-B
$$\stackrel{0-0}{\longrightarrow}$$
 OX $\stackrel{0}{\longrightarrow}$ N

FIG.3B

FIG.3D

FIG.3E

$$\begin{array}{c|c} O - O & OR & OX \\ \hline & B - (CH_2)_n - C(O) - NH - - dendrimer \\ N \end{array}$$

FIG.3F

dendrimer ---NH-C(0)-(CH₂)_n-B
$$\stackrel{O-O}{\longrightarrow}$$
 OR $\stackrel{OX}{\longrightarrow}$ N $\stackrel{N}{\longrightarrow}$ FIG.3H

FIG.3J

OX

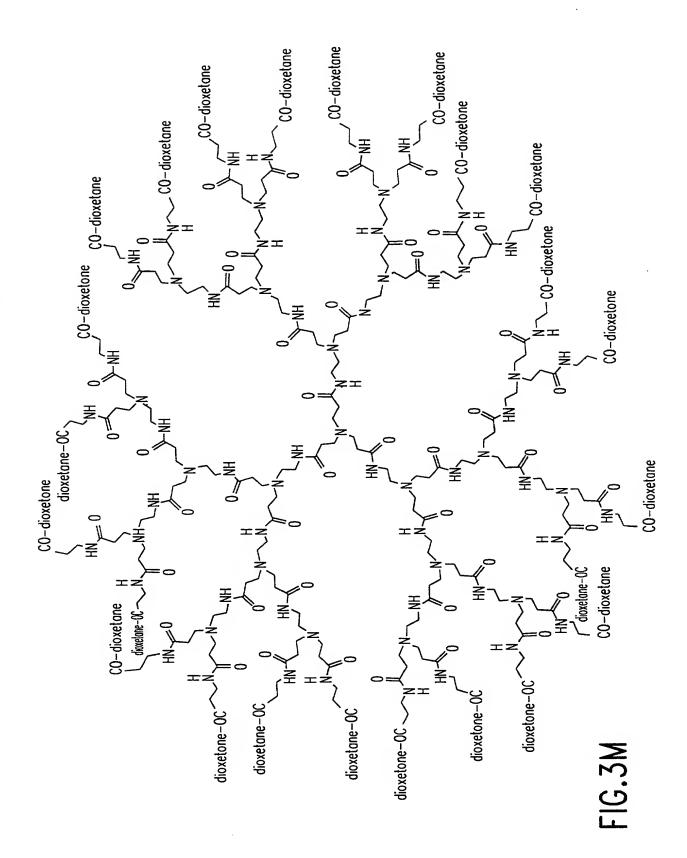
$$B-(CH_2)_n-B-dendrimer$$

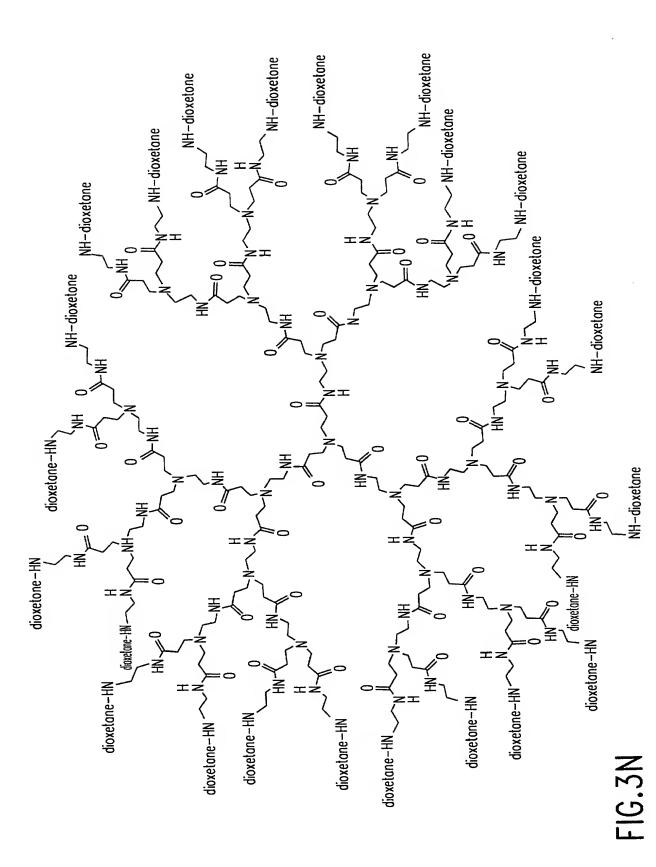
FIG.3L

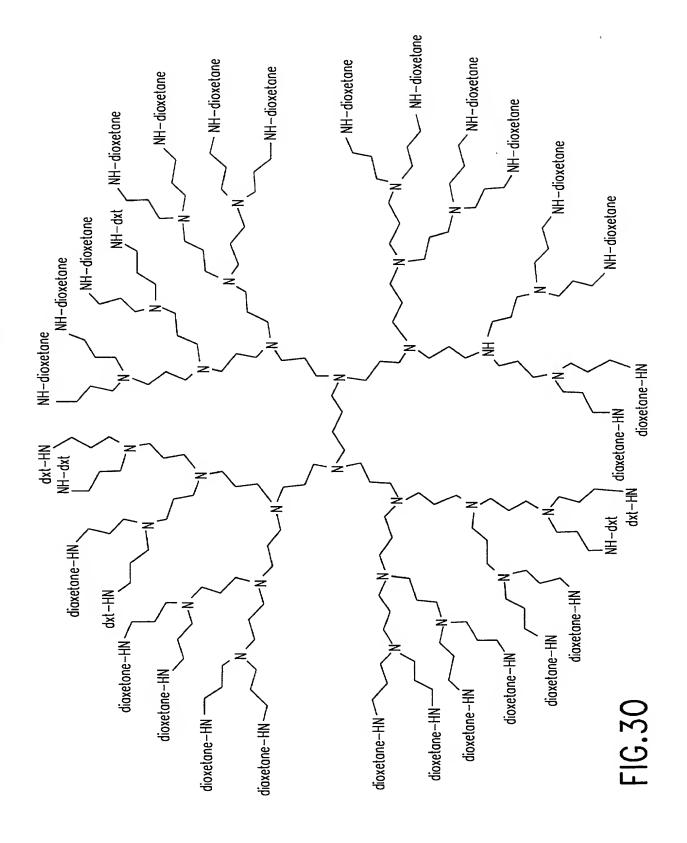
ON

$$B-(CH_2)_n-C(0)-NH$$

Adendrimer







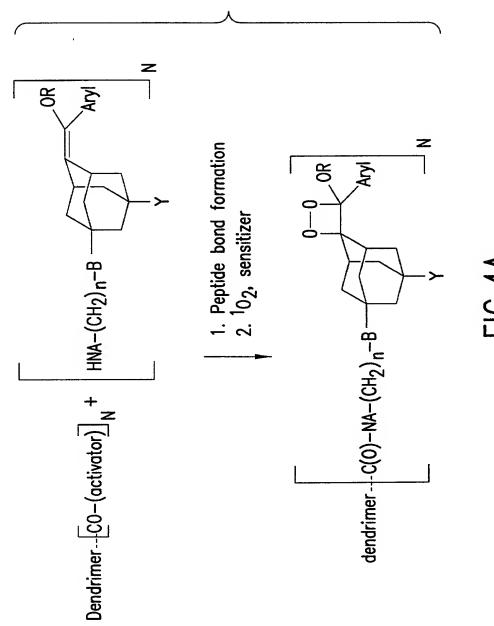
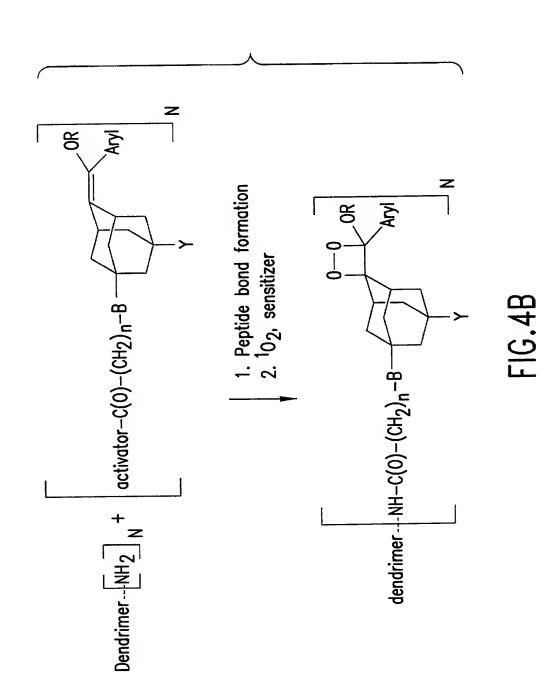


FIG. 4/



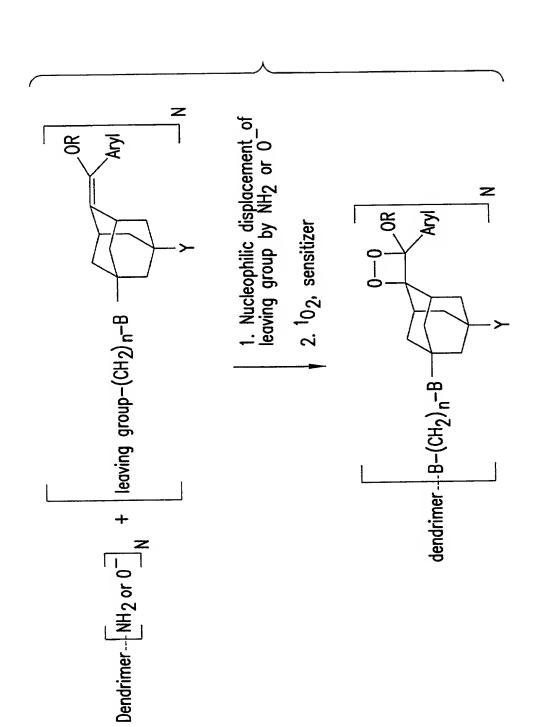


FIG.4C

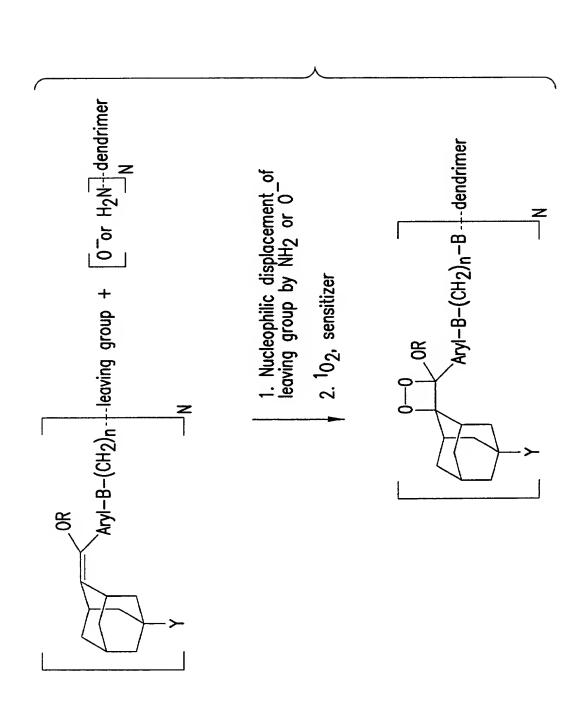


FIG.4D

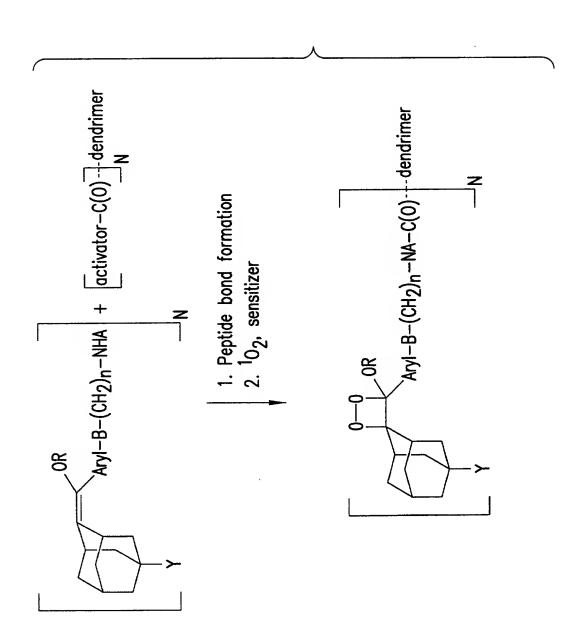
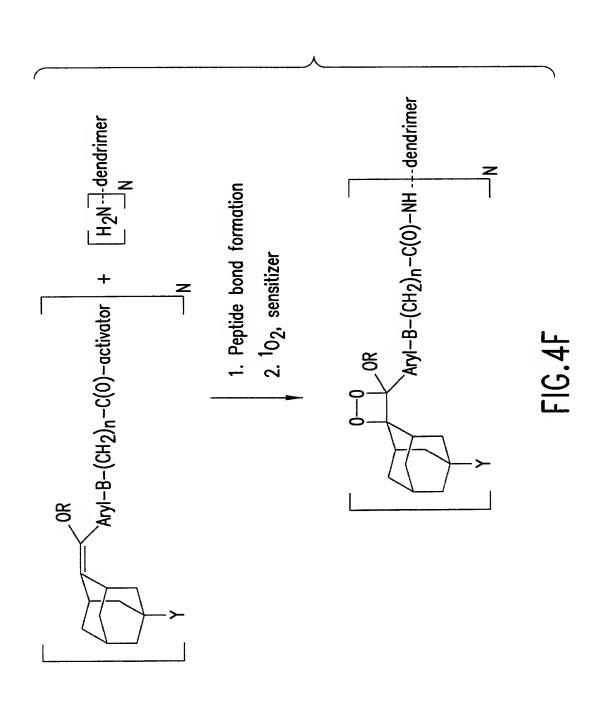


FIG.4E



dendrimer –
$$C(0)$$
 – NA – $(CH_2)_n(Et)N$ – NH NH

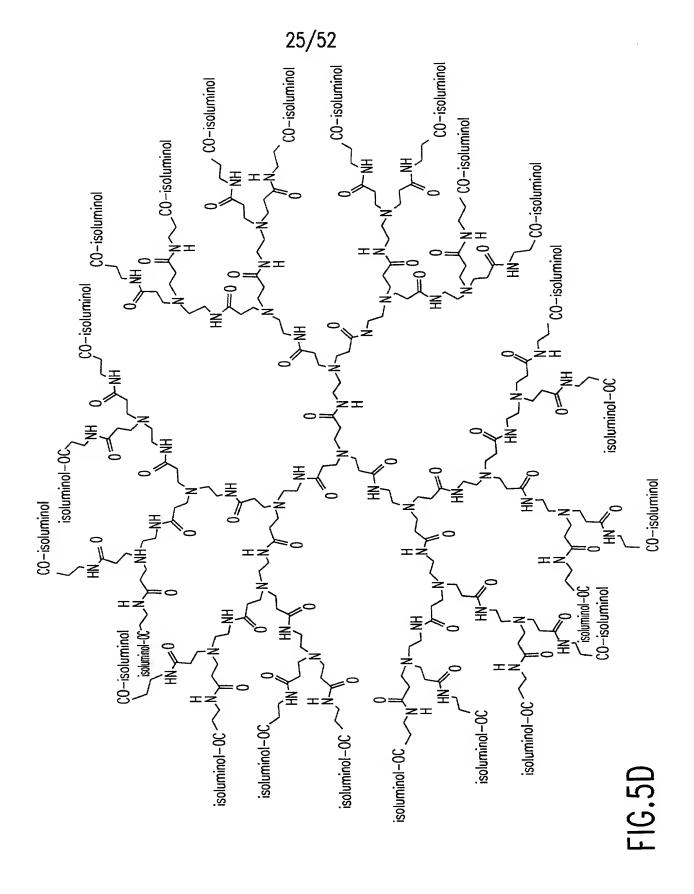
FIG.5A

dendrimer -- NH-C(0)-(CH₂)_n-(Et)N -- NH
$$\stackrel{\circ}{\longrightarrow}$$
 NH $\stackrel{\circ}{\longrightarrow}$ N

FIG.5B

dendrimer --
$$B-(CH_2)_n-(Et)N$$
 NH N

FIG.5C



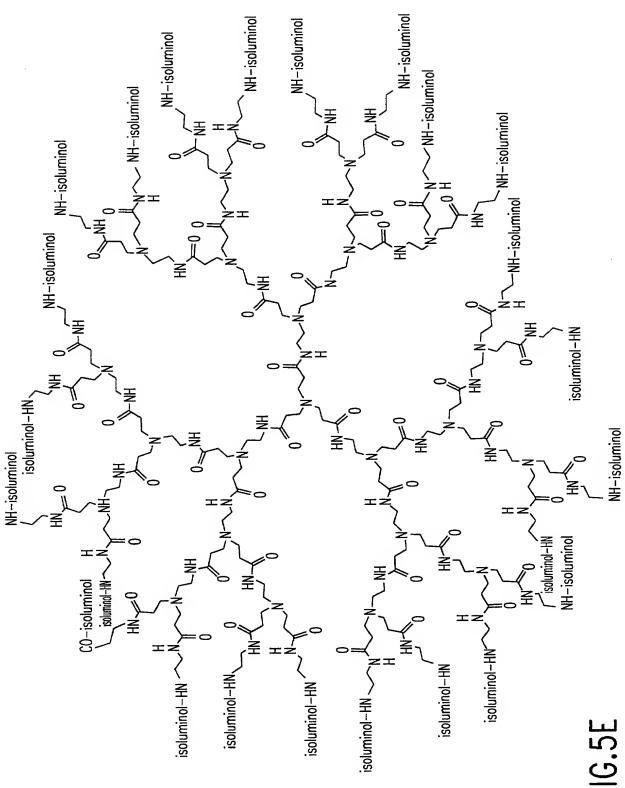


FIG.5E

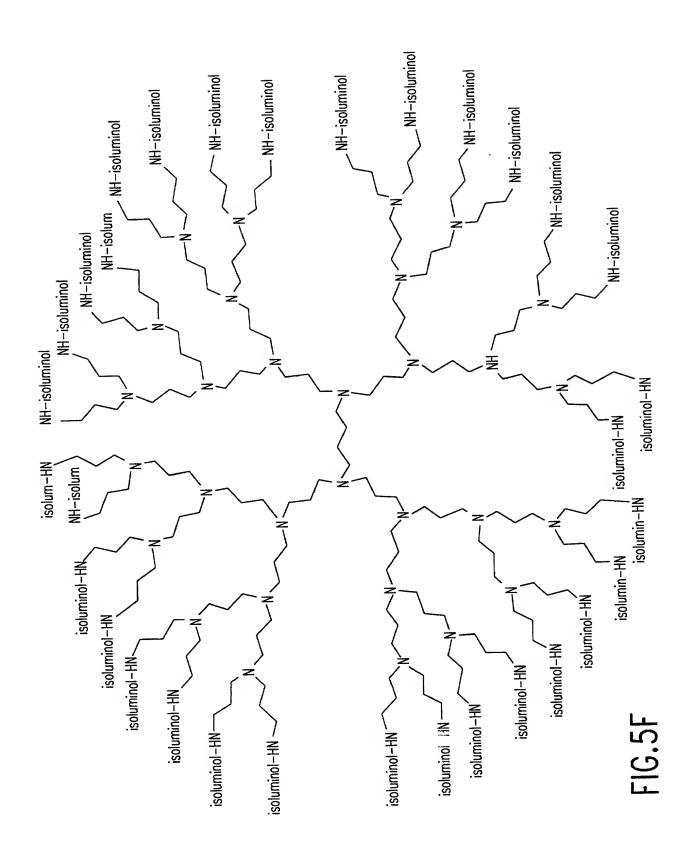


FIG.5G

$$\begin{bmatrix} N & N & C00(CH_2)_n - C(0) - NH - dendrimer \\ S & S & N \end{bmatrix}$$

FIG.5H

$$\begin{bmatrix} N & N & C00(CH_2)_n - B - dendrimer \\ N & N & N \end{bmatrix}$$

FIG.51

$$\begin{array}{c} 29/52 \\ \text{CH}_{3}X^{-} \\ \text{dendrimer--}C(0)-NA-(CH_{2})_{n} \\ \end{array}$$

FIG.6A

$$\begin{array}{c} CH_3X^- \\ + N \\ \hline \end{array}$$
 dendrimer -- NH-(0)C-(CH₂)_n -- O O -- O

FIG.6B

$$\frac{30/52}{\text{dendrimer}} - \frac{\text{CH}_3 \text{X}^-}{\text{CH}_3 \text{X}^-} + \frac{\text{N}_3 \text{CH}_3 \text{X}^-}{\text{N}_3 \text{CH}_3 \text{X}^-} - \frac{\text{CH}_3 \text{X}^-}{\text{CH}_3 \text{X}^-} - \frac{\text{CH}_3 \text{X}^-} - \frac{\text{CH}_3 \text{X}^-} - \frac{\text{CH}_$$

FIG.6D

dendrimer – NH-(0)C-(CH₂)_n – NS0₂R
$$\frac{1}{RS0_3}$$
 – N

FIG.6E

$$\begin{array}{c|c} CH_3X^- \\ + N \\ \hline \end{array}$$

$$\begin{array}{c|c} + N \\ \hline \end{array}$$

FIG.6F

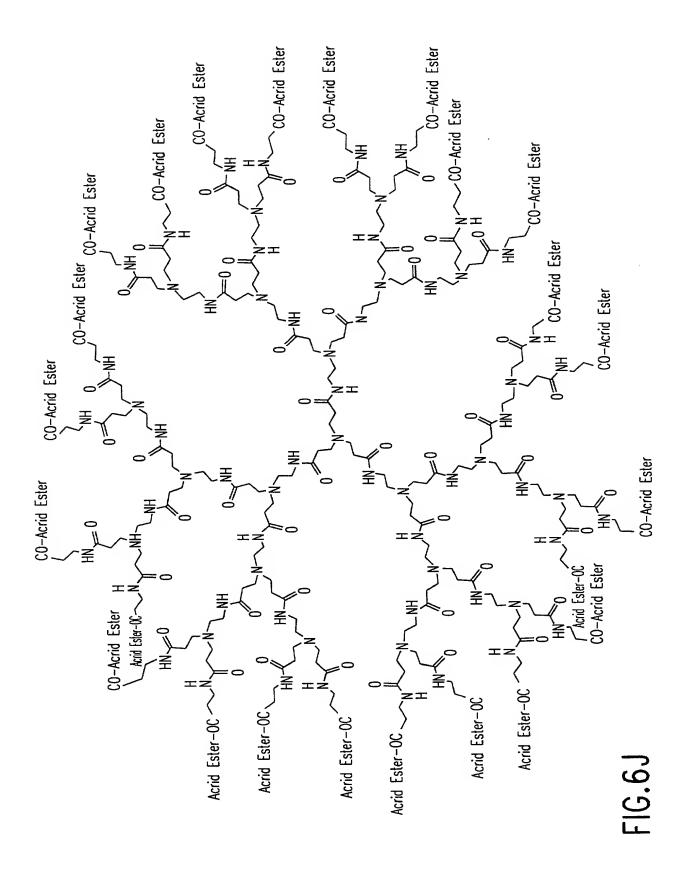
FIG.6G

$$\begin{array}{c|c} CH_3X & - \\ + N & + \\ \hline \end{array}$$
 dendrimer -- NH-(0)C-(CH₂)_n -- NSO₂R $\begin{array}{c|c} \\ \\ \\ \\ \end{array}$ N

FIG.6H

$$\begin{array}{c|c} & CH_3X^- \\ & + N \\ \hline \\ & - N \\ \\ & - N \\ \end{array}$$

FIG.61



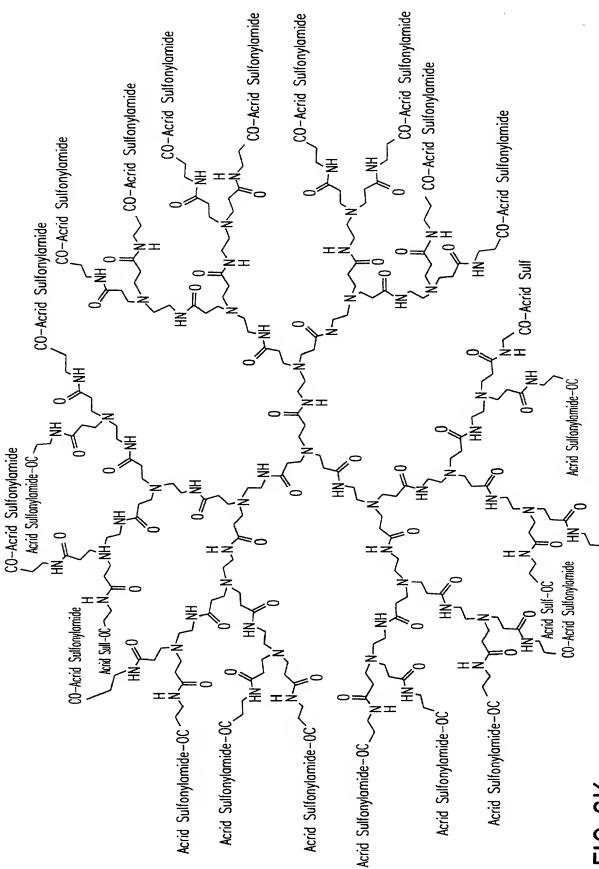
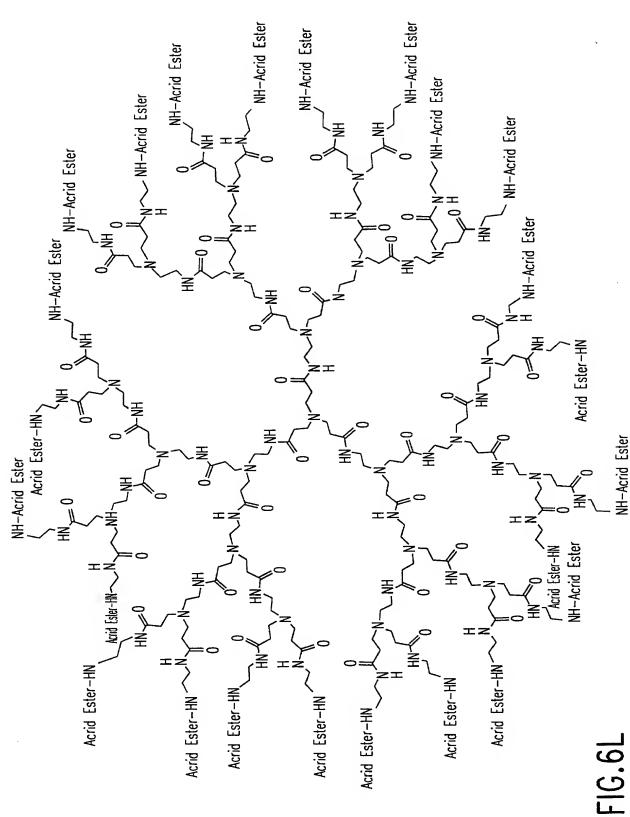
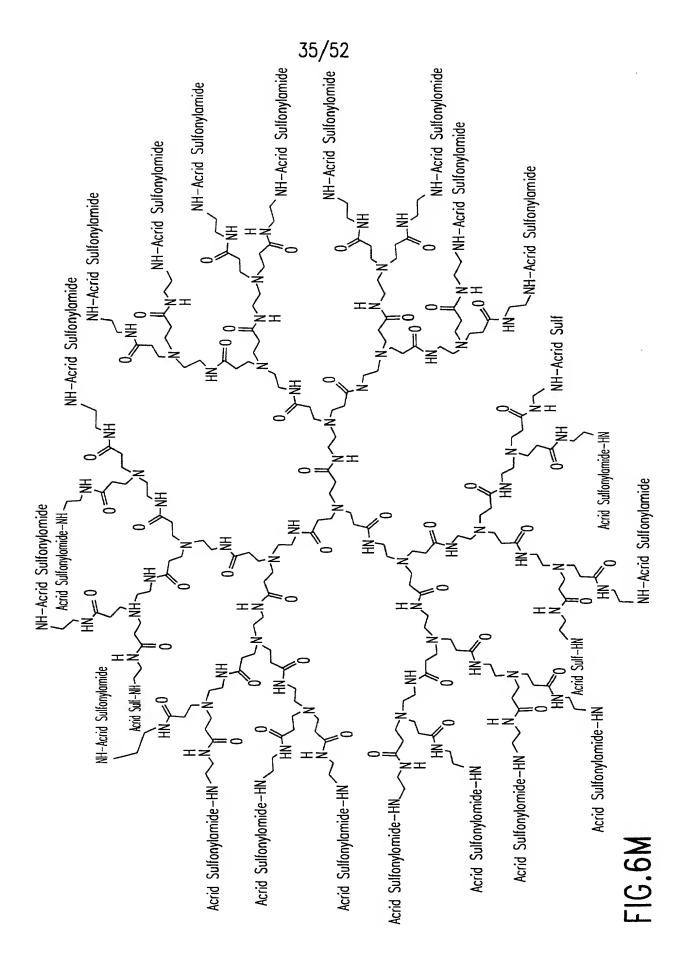
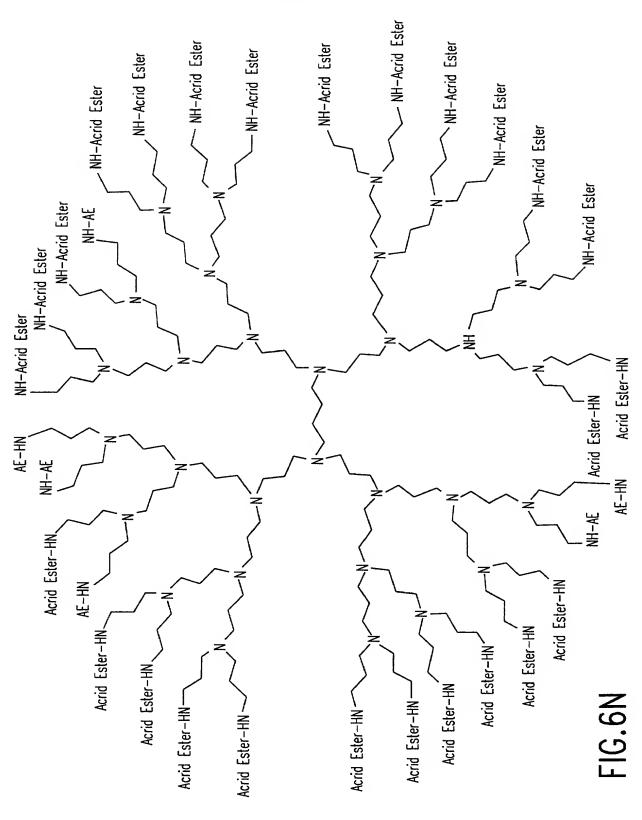


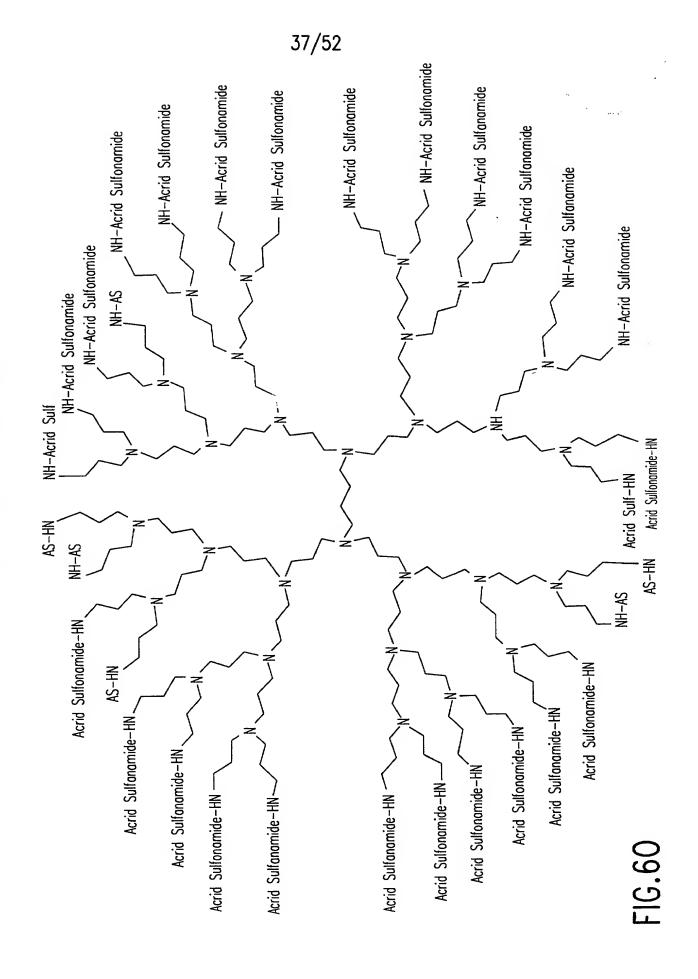
FIG.6K

CO-Acrid Sulfonylamide









38/52

$$\begin{array}{c|c}
\hline
DO & F & \hline
\\
N & \hline
\\
(CH_2)_n - NA - C(0) & \hline
\\
N & \hline
\end{array}$$
dendrimer

FIG.6P

$$\begin{array}{c|c}
\hline
DO & F & \hline
\\
& & \\
& & \\
\hline
(CH_2)_n - C(0) - NA & \hline
\end{array}$$
dendrimer

FIG.6Q

$$\begin{array}{c|c}
\hline
DO & F & \hline
\\
N & \hline
\\
(CH_2)_n - B & \hline
\\
N & \\
\end{array}$$
dendrimer

FIG.6R

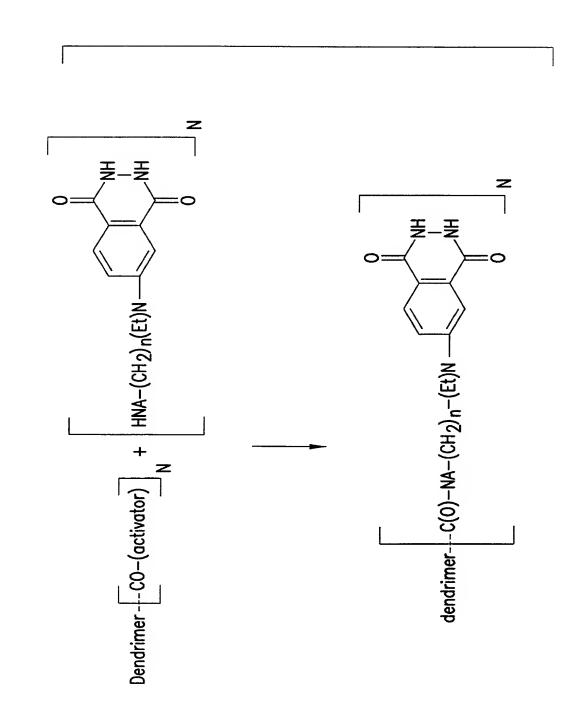


FIG.7/

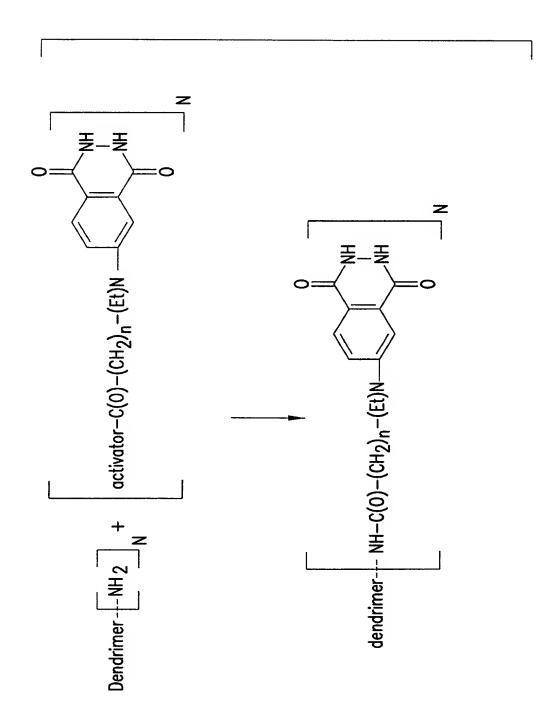
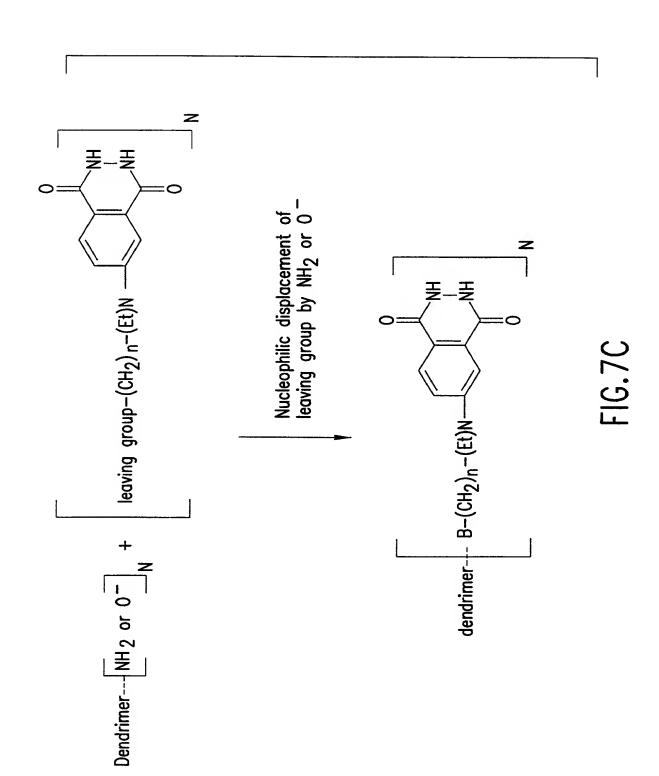


FIG. 7E



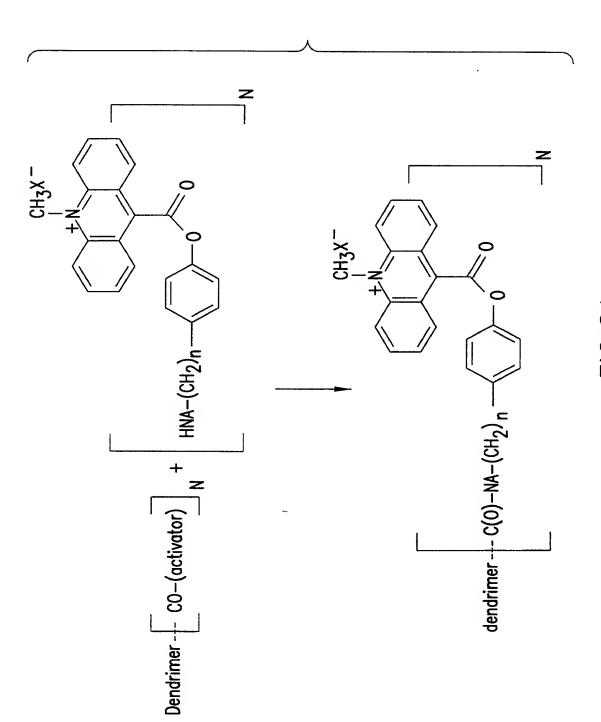


FIG.8A

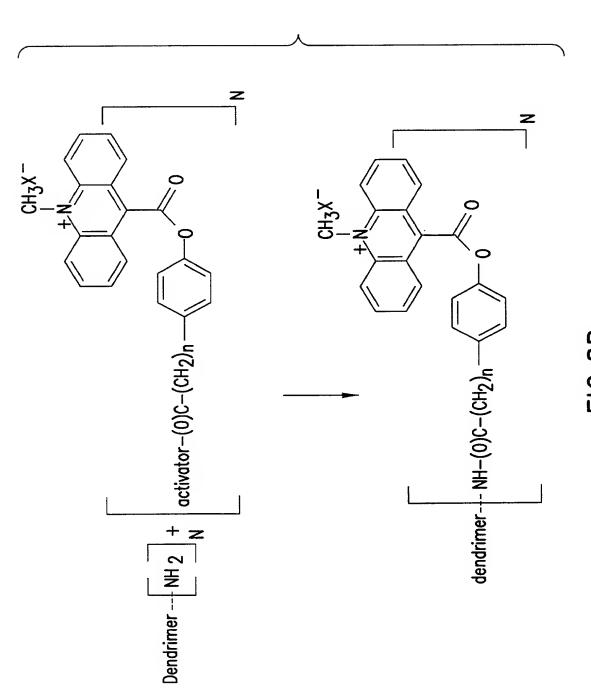
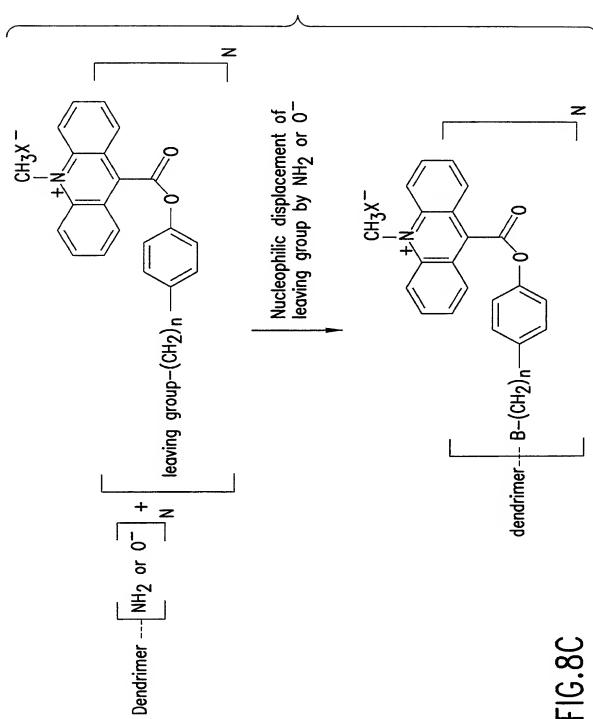


FIG.8B



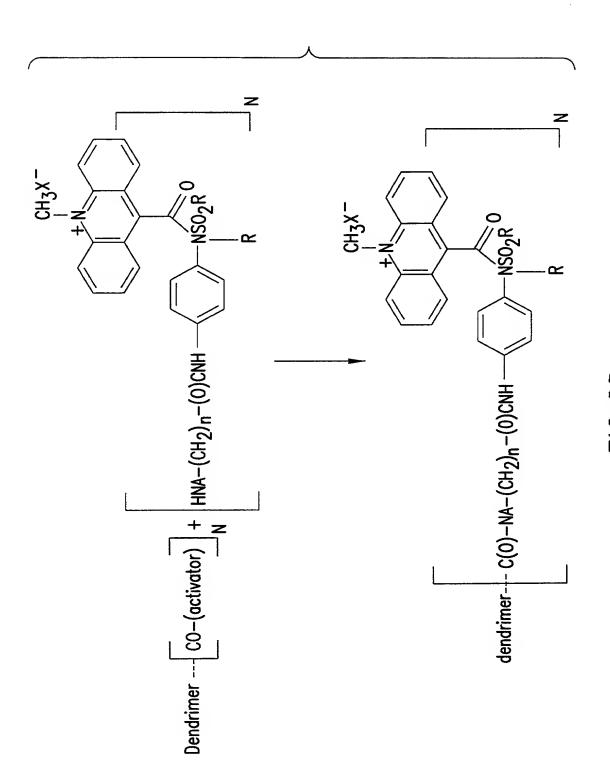


FIG.8D

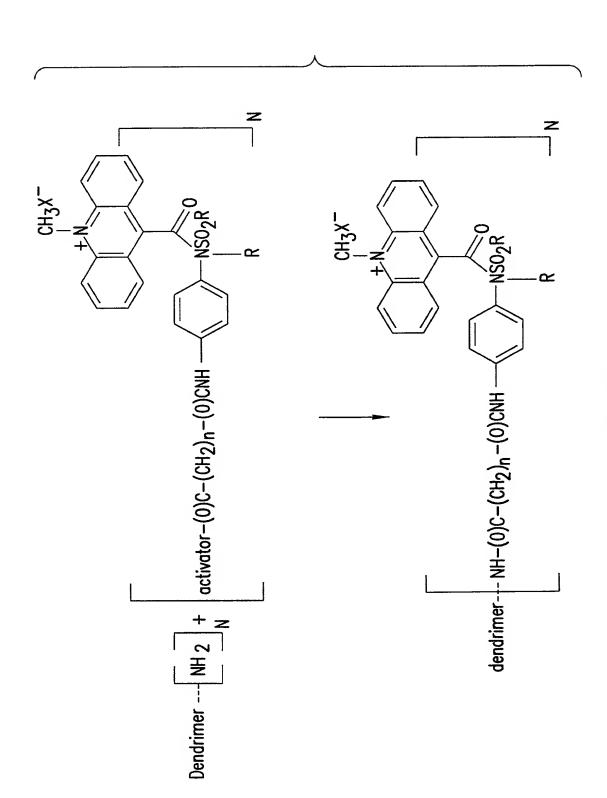


FIG.8E

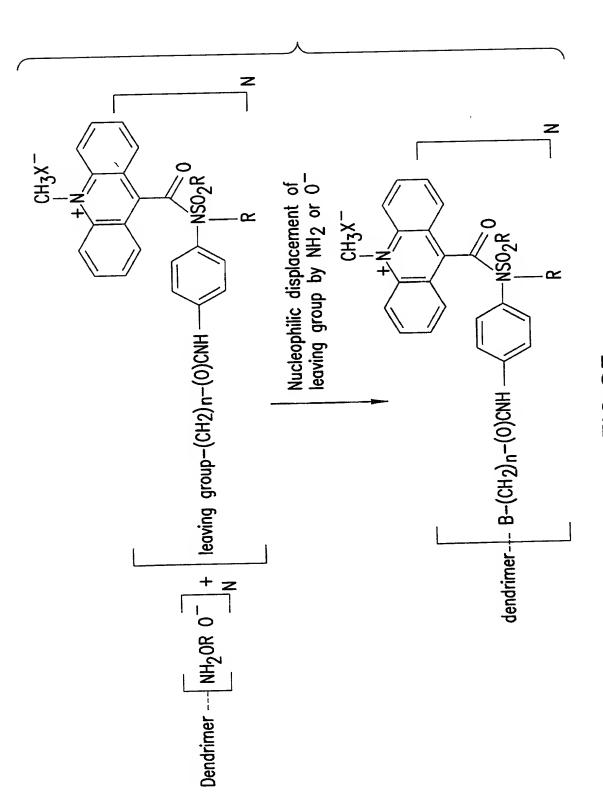
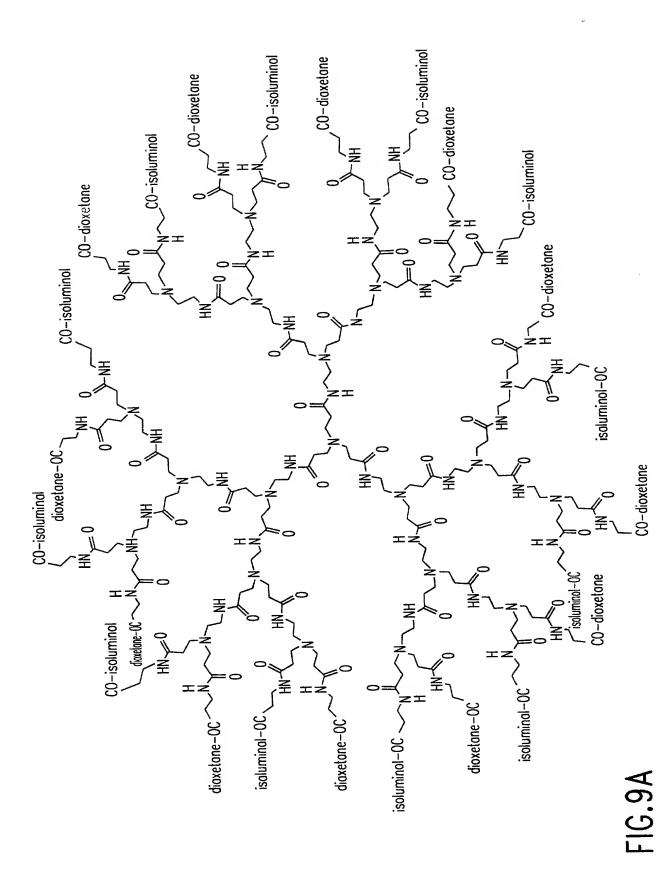


FIG.8F



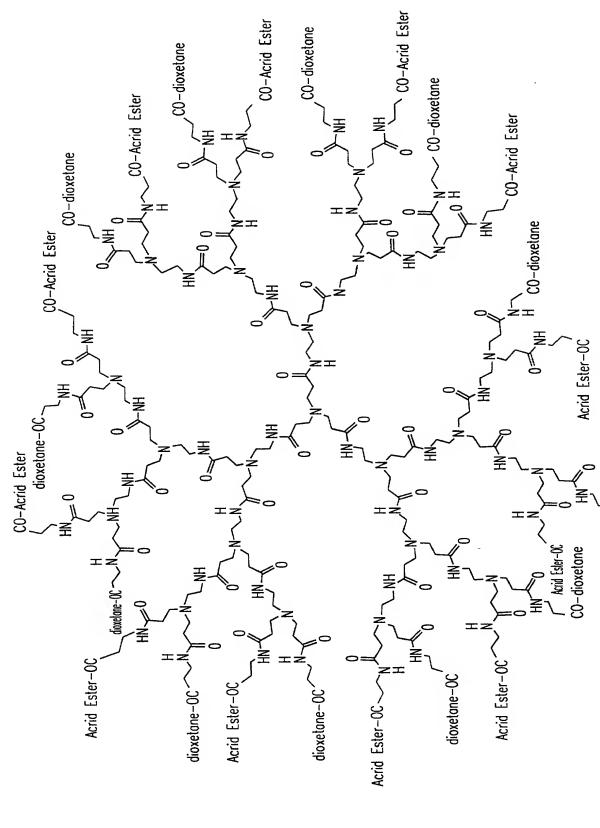
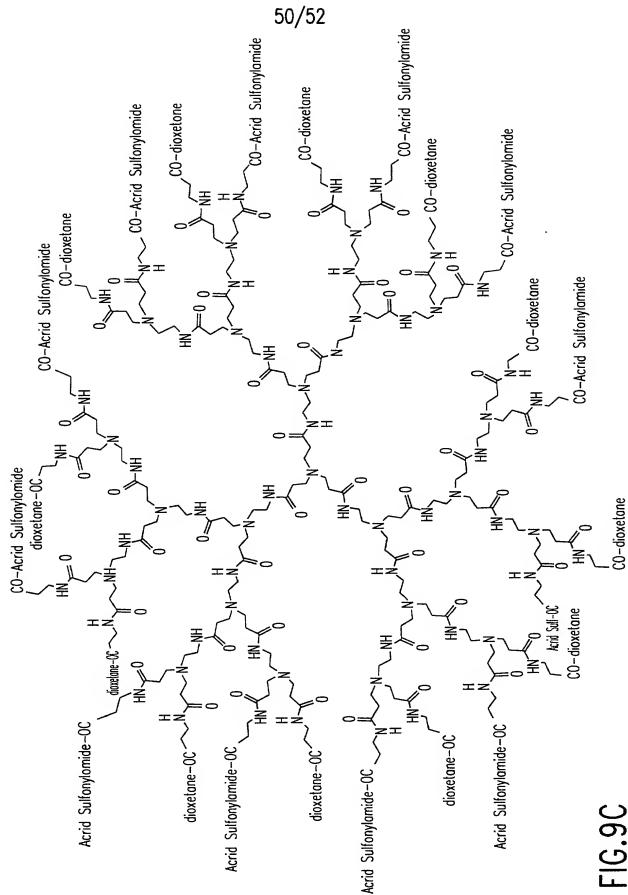


FIG.9B

CO-dioxetane



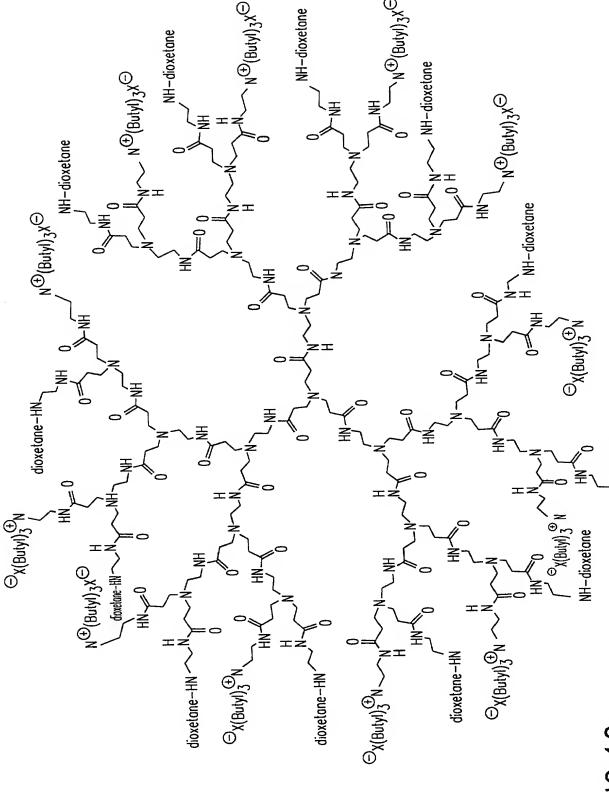


FIG. 10

NH-dioxetane

